

## ABSTRACT

A control apparatus 20 is provided in order to improve the energy efficiency of a vehicle during regeneration by a propulsion motor. At the time of regenerative operation of a propulsion motor 15, calculates the regenerative electric power which can be generated based on the speed of the vehicle or the like, and calculates the chargeable power which can be charged to a capacitor 13 based on the detected value of the terminal voltage of the capacitor 13 or the like. Then, the control apparatus 20, in the case where the chargeable power is greater than the regenerative electric power, sets the fuel cell 11 and the capacitor 13 to a directly connected condition, and outputs to an S/C output controller 17 a power generation command corresponding to the detection value of the terminal voltage of the capacitor 13 which has become the same value as the output voltage of the fuel cell 11, to perform supply of reactant gas in accordance with the power generation command, so that the capacitor 13 is charged by the power generation power of the fuel cell 11 and the regenerative electric power of the propulsion motor 15. In the case where the chargeable power is less than the regenerative electric power, the control apparatus 20 electrically disconnects the fuel cell 11 and the capacitor 13, and prohibits charging of the capacitor 13 by the power generation power of the fuel cell 11.